

JCO9 Rec'd PCT/PTO 24 OCT 2009

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Toshihito MIYAMA et al.  
Serial No : Not Yet Assigned (National Stage of PCT/JP2004/005885)  
I.A. Filed : April 23, 2004  
For : PROTON CONDUCTING MEMBRANE, METHOD FOR  
PRODUCING THE SAME AND FUEL CELL USING THE SAME

**INFORMATION STATEMENT DISCLOSURE**

Commissioner of Patents  
U.S. Patent and Trademark Office  
Customer Service Window, Mail Stop Amendment  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Sir:

Pursuant to 37 C.F.R. § 1.56 and 37 C.F.R. §§ 1.97-1.98, Applicants hereby direct the Examiner's attention to the following documents cited in the International Search Report for International Application PCT/JP2004/005885 of which the above-referenced application claims priority:

- (1) JP 2001-35509, February 9, 2001, accompanied by an English language abstract thereof (provided by esp@cenet);
  - (2) JP 2002-309016, October 23, 2002, accompanied by an English language abstract thereof (provided by esp@cenet);
  - (3) JP 10-503788, April 7, 1998;
  - (4) U.S. Patent No. 5,468,574 (EHRENBERG et al.), November 21, 1995;
- Applicants note that this document is a family member of document (3);

- (5) U.S. Patent No. 5,679,482 (EHRENBERG et al.), October 21, 1997;  
Applicants note that this document is a family member of documents  
(3) and (4);
- (6) WO 02/47801 A1, June 20, 2002;
- (7) U.S. Patent Application Publication No. 2004/0028913 A1 (HENNIGE  
et al.), February 12, 2004; Applicants note that this document is a  
family member of document (6).

Furthermore, Applicants direct the Examiner's attention to the following  
documents cited and discussed in the above-referenced application:

- (8) U.S. Patent No. 4,330,654 (EZZELL et al.), May 18, 1982; Applicants  
note that this document is cited and discussed at page 2, line 16 of the  
present application;
- (9) JP 4-366137 A, December 18, 1992; Applicants note that this  
document is cited and discussed at page 2, line 17 of the present  
application;
- (10) U.S. Patent No. 5,654,109 (PLOWMAN et al.), August 5, 1997;  
Applicants note that this document is a family member of document  
(9);
- (11) JP 6-342665 A, December 13, 1994; Applicants note that this  
document is cited and discussed at page 2, line 18 of the present  
application;

- (12) U.S. Patent No. 5,449,697 (NOAKI et al.), September 12, 1995;  
Applicants note that this document is a family member of document (11);
- (13) JP 9-110982, April 28, 1997, accompanied by an English language abstract thereof (provided by esp@cenet); Applicants note that this document is cited and discussed at page 6, line 19 of the present application;
- (14) JP 10-21943, January 23, 1998, accompanied by an English language abstract thereof (provided by esp@cenet); Applicants note that this document is cited and discussed at page 6, line 19 of the present application;
- (15) JP 10-45913, February 17, 1998, accompanied by an English language abstract thereof (provided by esp@cenet); Applicants note that this document is cited and discussed at page 6, line 19 of the present application;
- (16) JP 9-87510, March 31, 1997, accompanied by an English language abstract thereof (provided by esp@cenet); Applicants note that this document is cited and discussed at page 6, line 20 of the present application;
- (17) Tatsumisago M., et al. "Proton-conduction silica-gel films doped with a variety of electrolytes" Solid State Ionics, vol. 74 (1994), 105-108; Applicants note that this document is cited and discussed at page 7, line 23 of the present application;

- (18) JP 8-249923 A, September 27, 1996; Applicants note that this document is cited and discussed at page 8, line 3 of the present application;
- (19) U.S. Patent No. 5,682,261 (TAKADA et al.), October 28, 1997; Applicants note that this document is a family member of document (18);
- (20) JP 10-69817 A, March 10, 1998; accompanied by an English language abstract thereof (provided by esp@cenet); Applicants note that this document is cited and discussed at page 8, line 5 of the present application;
- (21) JP 10-92444 A, April 10, 1998; Applicants note that this document is cited and discussed at page 8, line 13 of the present application;
- (22) U.S. Patent No. 6,242,135 B1 (MUSHIAKE), June 5, 2001; Applicants note that this document is cited and discussed at page 8, line 13 of the present application; Applicants further note that this document is a family member of document (21);
- (23) JP 2002-358979, December 13, 2002; accompanied by an English language abstract thereof (provided by esp@cenet); Applicants note that this document is cited and discussed at page 8, line 26 of the present application;
- (24) JP 2002-83612, March 22, 2002, accompanied by an English language abstract thereof (provided by esp@cenet); Applicants note that this document is cited and discussed at page 9, line 14 of the present application.

Applicants further direct the Examiner's attention to the following co-pending and co-assigned U.S. patent applications:

- (25) Serial No. 10/540,564, filed June 24, 2005 and entitled "PROTON CONDUCTING MEMBRANE, METHOD FOR PRODUCING THE SAME AND FUEL CELL USING THE SAME".

Copies of the above-listed documents (with the exception of U.S. patents and U.S. patent applications) and the International Search Report (in English) for International Application PCT/JP2004/005885 are enclosed together with a completed copy of the PTO-1449 Form listing these documents. Accordingly, the Examiner is requested to consider these documents and to indicate such consideration by returning a signed and initialed copy of the PTO-1449 Form with the next official communication.


Further to the U.S. Patent and Trademark Office's decision to partially waive the requirements under 37 C.F.R. § 1.98 (a)(2)(i) and (iii), copies of the U.S. patents and U.S. patent applications cited above are not enclosed herewith. However, if any copies are needed, the Examiner is respectfully requested to contact the undersigned.

If there should be any questions, the Examiner is invited to contact the undersigned at the telephone number listed below.

Receipt date: 10/24/2005  
P28518.A02'

10/554222  
10554222 - GAU: 1795

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Respectfully submitted,  
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Receipt date: 10/24/2005

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| FORM PTO-1449   | U.S. Department of Commerce<br>Patent and Trademark Office | Atty. Docket No.<br>P28518                                | Application No.<br>Not Yet Assigned |
| <b>INFORMATION DISCLOSURE STATEMENT<br/>BY APPLICANT</b><br>(Use several sheets if necessary) |  | 2009 Rec'd PCT/PTO 24 OCT 2009<br>Toshinori MIYAMA et al. |                                     |
|   |  | Filing Date<br>Concurrently Herewith                      | Group<br>Not Yet Assigned           |

| U.S. PATENT DOCUMENTS |        |                 |          |                  |       |          |                            |
|-----------------------|--------|-----------------|----------|------------------|-------|----------|----------------------------|
| EXAMINER INITIAL      |        | DOCUMENT NUMBER | DATE     | NAME             | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| /AE/                  |        | 5 4 6 8 5 7 4   | 11/21/95 | EHRENBERG et al. |       |          |                            |
| /AE/                  |        | 5 6 7 9 4 8 2   | 10/21/97 | EHRENBERG et al. |       |          |                            |
| /AE/                  | 2004 / | 0 0 2 8 9 1 3   | 02/12/04 | HENNIGE et al.   |       |          |                            |
| /AE/                  |        | 4 3 3 0 6 5 4   | 05/18/82 | EZZELL et al.    |       |          |                            |
| /AE/                  |        | 5 6 5 4 1 0 9   | 10/05/97 | PLOWMAN et al.   |       |          |                            |
| /AE/                  |        | 5 4 4 9 6 9 7   | 09/12/95 | NOAKI et al.     |       |          |                            |
| /AE/                  |        | 5 6 8 2 2 6 1   | 10/28/97 | TAKADA et al.    |       |          |                            |
| /AE/                  |        | 6 2 4 2 1 3 5   | 06/05/01 | MUSHIAKE         |       |          |                            |

| FOREIGN PATENT DOCUMENTS |      |                 |          |          |       |          |                    |
|--------------------------|------|-----------------|----------|----------|-------|----------|--------------------|
|                          |      | DOCUMENT NUMBER | DATE     | COUNTRY  | CLASS | SUBCLASS | TRANSLATION YES NO |
| /AE/                     | 2001 | - 0 3 5 5 0 9   | 02/09/01 | JAPAN    |       |          |                    |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) |   |   |
|--|---|---|
| /AE/   | 1 | English Language Abstract of JP 2001-035509.  |
| /AE/   | 2 | English Language Abstract of JP 2002-309016.  |
| /AE/   | 3 | U.S. Patent Application No. 10/540,564, filed June 24, 2005, entitled PROTON CONDUCTING MEMBRANE, METHOD FOR PRODUCING THE SAME AND FUEL CELL USING THE SAME. |
| /AE/   | 4 | English Language Abstract of JP 9-110982.   |
| /AE/   | 5 | English Language Abstract of JP 10-21943.   |
| /AE/   | 6 | English Language Abstract of JP 10-45913.   |
| /AE/   | 7 | English Language Abstract of JP 9-87510.  |

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| EXAMINER | /Alix Echelmeyer/ | DATE CONSIDERED | 09/02/2009 |
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\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.  
P28518

Application No.  
Not Yet Assigned

10/554222

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**  
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609 Rec'd PCT/PTO 24 OCT 2005  
Toshihito MIYAMA et al.

Filing Date  
Concurrently Herewith

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**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL |  | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
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|      |      | <del>8 2 4 0 0 2 3</del>   | <del>08/27/06</del> | <del>JAPAN</del> |       |          |                       |
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| /AE/ | 2002 | - 3 5 8 9 7 9              | 12/13/02            | JAPAN            |       |          |                       |
| /AE/ | 2002 | - 0 8 3 6 1 2              | 03/22/02            | JAPAN            |       |          |                       |
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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|      |    |  |
|------|----|--|
| /AE/ | 8  | Tatsumisago M., et al. "Proton-conduction silica-gel films doped with a variety of electrolytes" |
|      |    | Solid State Ionics, vol. 74 (1994), 105-108.   |
| /AE/ | 9  | English Language Abstract of JP 10-69817.  |
| /AE/ | 10 | English Language Abstract of JP 2002-358979.   |
| /AE/ | 11 | English Language Abstract of JP 2002-083612.   |
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EXAMINER /Alix Echelmeyer/

DATE CONSIDERED 09/02/2009

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